

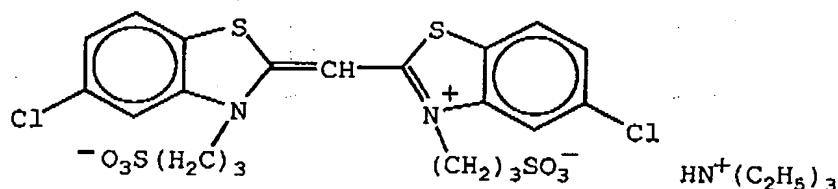
WHAT IS CLAIMED IS:

1. A silver halide photographic light-sensitive material comprising a silver halide photographic emulsion containing a silver halide grain, wherein the silver halide photographic emulsion includes a dye chromophore adsorbed in multiple layers on the surface of the silver halide grain, and at least one of compounds containing the dye chromophore is Dye X satisfying Condition 1 represented by the following formula (1):

$$\{ \text{Agg}(\text{Dye X}) / \text{Agg}(\text{Dye 1}) \} \geq 1.1$$

wherein Agg(Dye 1) represents an aggregation property of the following Dye 1 and Agg(Dye X) represents an aggregation property of Dye X:

Dye 1:



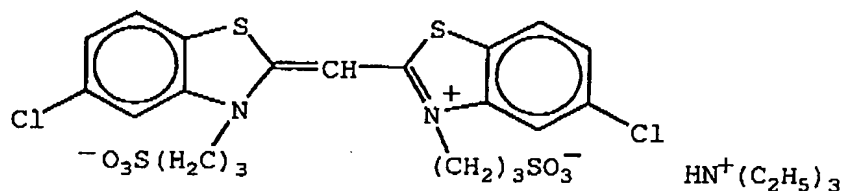
2. A silver halide photographic light-sensitive material comprising a silver halide photographic emulsion containing a silver halide grain, wherein the silver halide photographic emulsion includes a dye chromophore adsorbed in multiple layers on the surface of the silver halide grain, and at least one of compounds containing the dye

chromophore is Dye X satisfying Condition 2 represented by the following formula (2):

$$\{\log P(\text{Dye X})/\log P(\text{Dye 1})\} \geq 1.1$$

wherein  $\log P(\text{Dye 1})$  represents a hydrophilicity/hydrophobicity of the following Dye 1 and  $\log P(\text{Dye X})$  represents a hydrophilicity/hydrophobicity of Dye X:

Dye 1:

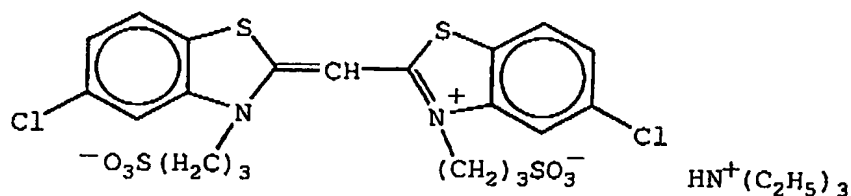


3. A silver halide photographic light-sensitive material comprising a silver halide photographic emulsion containing a silver halide grain, wherein the silver halide photographic emulsion includes a dye chromophore adsorbed in multiple layers on the surface of the silver halide grain, and at least one of compounds containing the dye chromophore is Dye X satisfying Condition 3 represented by the following formula (3):

$$\{\text{J-Agg}(\text{Dye X})/\text{J-Agg}(\text{Dye 1})\} \geq 1.1$$

wherein  $\text{J-Agg}(\text{Dye 1})$  represents a J-aggregation property of the following Dye 1 and  $\text{J-Agg}(\text{Dye X})$  represents a J-aggregation property of Dye X:

Dye 1:



4. A silver halide photographic light-sensitive material comprising a silver halide photographic emulsion containing a silver halide grain, wherein the silver halide photographic emulsion includes a dye chromophore adsorbed in multiple layers on the surface of the silver halide grain, and at least one of compounds containing the dye chromophore is Dye X satisfying all of Conditions 1 to 3 represented by the following formulas (1) to (3), respectively:

Condition 1:

Formula (1)

$$\{\text{Agg}(\text{Dye X})/\text{Agg}(\text{Dye 1})\} \geq 1.1$$

wherein Agg(Dye 1) represents an aggregation property of the following Dye 1 and Agg(Dye X) represents an aggregation property of Dye X,

Condition 2:

Formula (2)

$$\{\log P(\text{Dye X})/\log P(\text{Dye 1})\} \geq 1.1$$

wherein logP(Dye 1) represents a hydrophilicity/hydro-

phobicity of the following Dye 1 and  $\log P(\text{Dye X})$  represents a hydrophilicity/hydrophobicity of Dye X,

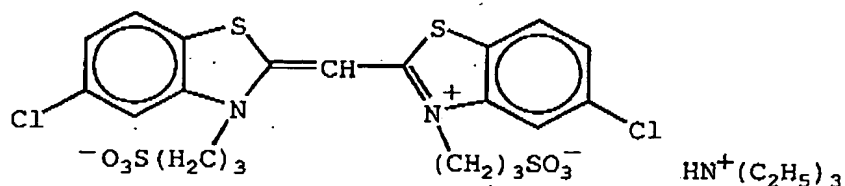
Condition 3:

Formula (3)

$$\{J\text{-Agg}(\text{Dye X})/J\text{-Agg}(\text{Dye 1})\} \geq 1.1$$

wherein  $J\text{-Agg}(\text{Dye 1})$  represents a  $J$ -aggregation property of the following Dye 1 and  $J\text{-Agg}(\text{Dye X})$  represents a  $J$ -aggregation property of Dye X:

Dye 1:



5. The silver halide photographic light-sensitive material as described in claim 1, wherein in the silver halide photographic emulsion, tabular silver halide grains having an aspect ratio of 2 or more occupy 50% (area) or more of all silver halide grains in the emulsion.

6. The silver halide photographic light-sensitive material as described in claim 2, wherein in the silver halide photographic emulsion, tabular silver halide grains having an aspect ratio of 2 or more occupy 50% (area) or more of all silver halide grains in the emulsion.

7. The silver halide photographic light-sensitive material as described in claim 3, wherein in the silver halide photographic emulsion, tabular silver halide grains having an aspect ratio of 2 or more occupy 50% (area) or more of all silver halide grains in the emulsion.

8. The silver halide photographic light-sensitive material as described in claim 4, wherein in the silver halide photographic emulsion, tabular silver halide grains having an aspect ratio of 2 or more occupy 50% (area) or more of all silver halide grains in the emulsion.

9. The silver halide photographic light-sensitive material as described in claim 1, wherein the silver halide photographic emulsion is subjected to a selenium sensitization.

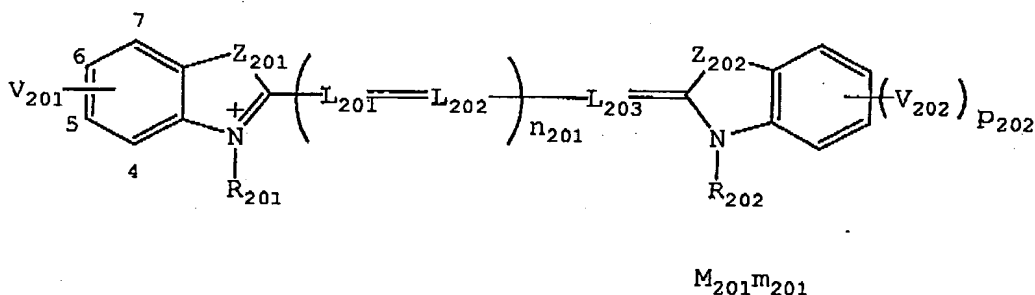
10. The silver halide photographic light-sensitive material as described in claim 2, wherein the silver halide photographic emulsion is subjected to a selenium sensitization.

11. The silver halide photographic light-sensitive material as described in claim 3, wherein the silver halide

photographic emulsion is subjected to a selenium sensitization.

12. The silver halide photographic light-sensitive material as described in claim 4, wherein the silver halide photographic emulsion is subjected to a selenium sensitization.

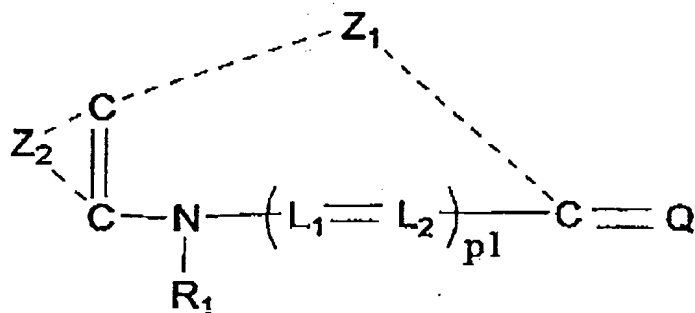
13. A silver halide photographic light-sensitive material comprising a silver halide photographic emulsion containing a silver halide grain, wherein the silver halide photographic emulsion includes a dye chromophore adsorbed in multiple layers on the surface of the silver halide grain, and at least one of compounds containing the dye chromophore is a dye represented by the following formula (E):



wherein  $Z_{201}$  and  $Z_{202}$  each represents an oxygen atom, a sulfur atom, a selenium atom or a nitrogen atom,  $V_{201}$  represents a 5-membered aromatic heterocyclic ring,  $V_{202}$  represents a substituent,  $p_{202}$  represents 0, 1, 2, 3 or 4,

$R_{201}$  and  $R_{202}$  each represents an alkyl group, an aryl group or a heterocyclic group,  $L_{201}$ ,  $L_{202}$  and  $L_{203}$  each represents a methine group,  $n_{201}$  represents 0 or 1,  $M_{201}$  represents an electric charge balancing counter ion, and  $m_{201}$  represents a number of 0 to more necessary for neutralizing the electric charge of the molecule.

14. A silver halide photographic light-sensitive material comprising a silver halide photographic emulsion containing a silver halide grain, wherein the silver halide photographic emulsion includes a dye chromophore adsorbed in multiple layers on the surface of the silver halide grain, and at least one of compounds containing the dye chromophore is a dye represented by the following formula (F):

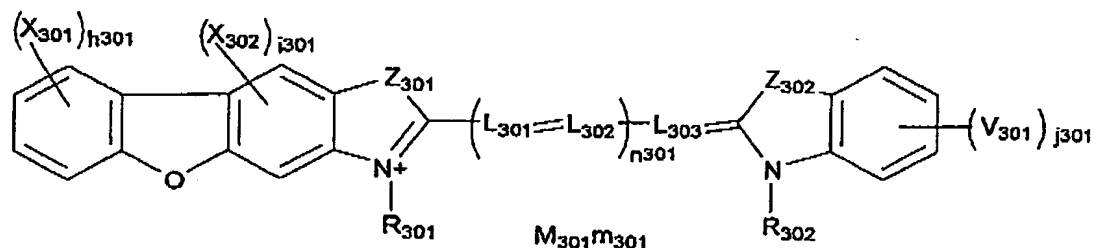


M1m1

wherein  $Z_1$  represents an atomic group necessary for forming a nitrogen-containing 5- or 6-membered heterocyclic ring,

$Z_2$  represents an atomic group necessary for forming aromatic ring or aliphatic ring, and necessary for forming a 4 membered or more multi-cyclic condensed ring together with the nitrogen-containing 5- or 6-membered heterocyclic ring formed by  $Z_1$ ,  $Q$  represents a group necessary for forming a methine dye as the compound represented by the formula (F) forms a methine dye,  $R_1$  represents an alkyl group, an aryl group or a heterocyclic group, each of which is substituted by one of an acidic group and a group having a positive electric charge,  $L_1$  and  $L_2$  each represents a methine group,  $p_1$  represents 0 or 1,  $M_1$  represents an electric charge balancing counter ion, and  $m_1$  represents a number of 0 to more, necessary for neutralizing the electric charge of the molecule.

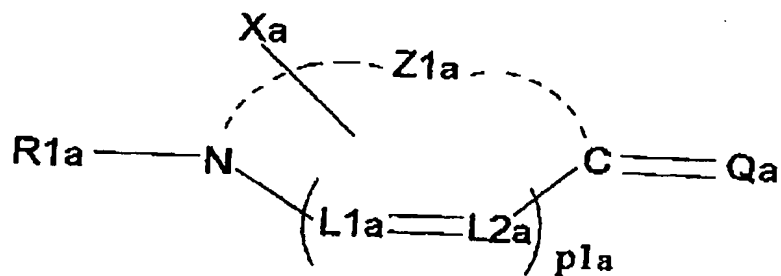
15. The silver halide photographic light-sensitive material as described in claim 14, the dye represented by the formula (F) is represented by the following formula (F1):





wherein  $Z_{301}$  and  $Z_{302}$  each represents an oxygen atom, a sulfur atom, a selenium atom or a nitrogen atom,  $X_{301}$  and  $X_{302}$  each represents a substituent of the dibenzofuran ring,  $V_{301}$  represents a substituent,  $R_{301}$  represents an alkyl group, an aryl group or a heterocyclic group, each of which is substituted by one of an acidic group and a group having a positive electric charge is substituted,  $L_{301}$ ,  $L_{302}$  and  $L_{303}$  each represents a methine group,  $n_{301}$  represents 0 or 1,  $h_{301}$  represents 0, 1, 2, 3 or 4,  $i_{301}$  represents 0, 1 or 2,  $j_{301}$  represents 0, 1, 2, 3 or 4,  $M_{301}$  represents an electric charge balancing counter ion, and  $m_{301}$  represents a number of 0 to more, necessary for neutralizing the electric charge of the molecule.

16. A silver halide photographic light-sensitive material comprising a silver halide photographic emulsion containing a silver halide grain, wherein the silver halide photographic emulsion includes a dye chromophore adsorbed in multiple layers on the surface of the silver halide grain, and at least one of compounds containing the dye chromophore is a dye represented by the following formula (G):



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wherein Z1a represents an atomic group necessary for forming a nitrogen-containing 5- or 6-membered heterocyclic ring, which may be condensed with a ring, Xa represents a substituted or unsubstituted benzofuran ring, L1a and L2a each represents a methine group, pla represents 0 or 1, Qa represents a group necessary for forming a methine dye as the compound represented by the formula (G), R1a represents an alkyl group, an aryl group or a heterocyclic group, M1a represents an electric charge balancing counter ion, and m1a represents a number of 0 to more, necessary for neutralizing the electric charge of the molecule.